

# FOLIO

UNIVERSITY OF ALBERTA  
5 MAY 1995



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## 'A world of smooth-functioning technological wonders'

**Ad hoc task force goes Stateside, collects facts for report to President**

By Lois Stanford

The President's ad hoc task force on technology and learning has just returned from a fact-finding trip, on which we looked for ideas which might bring advantages to teaching and learning at the University of Alberta. We visited The Pennsylvania State University to see 20 faculty members presenting their projects in alternative delivery of courses at a symposium sponsored by their Center for Academic Computing. We went to the Institute for Academic Technology, a collaborative venture between the University of North Carolina and IBM, to hear about new concepts and issues in developing a technology-assisted university learning environment. We stopped on our way home at the National Technical University in Colorado, where satellite video technology is employed to offer graduate engineering degrees to students located throughout North America using courses taught at 47 major US universities.

We saw a world of smooth-functioning technological wonders. But what we came home with was a profound appreciation of the power of these wonders to support rich, complex teaching and learning, and some understanding of the issues a university must resolve if it is to engage in this sort of delivery of education.

We saw a range of technologies and teaching/learning applications, from technology used simply to illustrate and clarify a classroom lecture, through more complex individual tutoring and independent learning systems, to courses shared between universities. Highlights?

- A chemistry professor who redesigned his first-year lecture-and-blackboard class to include a computer display, which allowed him to use colour and animation to illustrate abstract concepts effectively. I now understand molecular weight!

- An English professor whose course in popular culture focused on the students' collaborative development of a multimedia "scrapbook" containing, with their commentary, a rich variety of cinematic, musical, pictorial, and published materials; she reported that the students in the course engaged in an electronic dialogue over this notebook in which even the most reticent was able to express deeply-held views about the nature of society in a way unlikely in an open classroom.

- A French professor whose engaging multimedia language learning program reflected how a passion for teaching can be captured in technology, and how rapidly students can be engaged with that passion through a skillfully designed individual tutoring system.

- Materials for a music appreciation course in which the simultaneous presentation of sound and visual schematics of the music's structure made me feel as if I

had six pairs of ears all tuned to Vivaldi's "Spring".

- The richness of a graduate program in which outstanding specialist scholars from around the world can be added, without leaving home, to a student's experience.

We came home, also, with an appreciation of the issues that a university must resolve if it is to engage in any serious way with the alternative delivery of instruction. Here are just a few of them. The need for ongoing support for faculty members in translating academic content and expertise into effectively designed instruction using appropriate technology. The need for students to be trained both in the use of e-mail, the Internet, multimedia systems, etc, and in the skills required for self-directed, independent learning. The need to recognize in faculty reward systems the importance of innovative teaching and the development of alternative delivery learning materials. The critical need for technologically sophisticated classrooms that are friendly to teacher and learner. The strength of collaborations among departments, faculties, universities, and with corporate partners to make best use of the investment required in technology, training, and product development and support in the marriage of technology and learning.

Lois Stanford is a member of the President's ad hoc task force on technology and learning.

## 'The University of Alberta Advantage'

**Blueprint for best usage of advanced technology being drawn up**

By Ron Thomas

As Folio was going to press, the ad hoc task force on technology and learning (see story above) was holding another in its series of planning meetings. The nine-member group says its goal is to "assure the continued viability and competitiveness of the University of Alberta as a research-based institution by developing a plan for alternative delivery strategies to increase access to high quality, affordable and cost-effective learning opportunities.

"We call this the University of Alberta Advantage. By this we mean choices of the best the University currently has to offer as well as time and geography independent learning. We also mean the ability of students and faculty to participate and reciprocate with other institutions, nationally and internationally, in the creation, use and dissemination of knowledge."

The problem, as the task force sees it,



Dr Regula Qureshi, Director of the new Centre for Ethnomusicology (standing), and student Lisa Nelson (left) look on as students (from left) Jason Sinkus and Brian Rose play instruments on display in the new music learning and research resource. A computer allows key word search of the Centre's more than 2,000 titles.

## New Centre explores music, community link

By Elsa Roehr

Faculty and students have a new resource for exploring the relationship between community and music.

Tucked away in a small room on the second floor of the Fine Arts Building is a research and learning treasure: a collection of more than 2,000 titles in audio and video recordings of ethnic and folk music, along with the research findings, written documentation, and a display of musical instruments.

The new Centre for Ethnomusicology represents years of work by talented and

committed scholars and performers. The entire collection is catalogued on a database that allows easy access by key word search. Any of the pieces can be listened to on-site. Recordings cannot be borrowed, but, where the contributors permit, copies can be dubbed for the cost of materials. Copies of the research are also available.

"This is an invaluable resource for those seeking to understand how people use music to connect, express and create community and identity," said Regula Qureshi, Director of the Centre, music professor and a major contributor of recordings and research to the Centre.

"This can be of tremendous value to students and faculty in disciplines in the social sciences, humanities, education, and fine arts," she said. "We collaborate across campus with students and colleagues from different disciplines." Dr Qureshi is also an Adjunct Professor in Anthropology and in Comparative Studies in Literature, Film and Religion; and she is a member of the East Asian Studies Adjunct Council.

The collection documents the history and uniqueness of ethnic and community music, but it is more than an archive. The

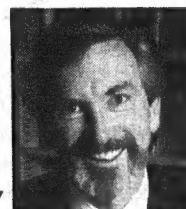
Continued on page 2

## Owram appointed VP (Academic)

Doug Owram has been appointed Vice-President (Academic) for a five-year term effective 1 July 1995.

Dr Owram, currently an Associate Vice-President (Academic), will be responsible for providing leadership and vision in setting the overall academic priorities and direction for the University.

A full story on Dr Owram's appointment will appear in the 19 May Folio.





## Classroom upgrading on summer agenda

By Elsa Roehr

With the end of classes comes a chance to upgrade classrooms for the fall.

The Classroom Upgrading/Instructional Facilities Committee wants to hear about any improvements you may want to see in centrally scheduled classrooms.

"When something is physically wrong in a classroom, it can distract from both teaching and learning," says Dan Pretzlaff, Building Trades Superintendent, Physical Plant, and Committee Chair. "Summer is a perfect time to get things fixed."

Among the upgrading projects already planned for summer are: security for audiovisual equipment in Physics P126, improvements to second floor classrooms in the Humanities Centre, new projection screens and changes to light switching in the Business Building.

During the past year, the Classroom Upgrading/Instructional Facilities Committee started or completed renovations in Administration, V-Wing, Dentistry-Pharmacy, Humanities, Arts, Chemical and Mineral Engineering, and Education South.

"The committee deals only with centrally scheduled classrooms," says Pretzlaff. "But Physical Plant wants to hear about things that need fixing in any classroom."

Please send your upgrading requests to the Classroom Upgrading/Instructional Facilities Committee, 420 General Services Building, or call 492-4261 and ask for Dan Pretzlaff or Reg Savard. Audiovisual requests should be directed to Judi Ross at the Technical Resource Group, 492-0151.

## Admin data coming on-line

By Ted Holdaway

Technological changes, improved databases, and the need for the University to be more efficient and up to date in processing information are combining to alter the way in which users access University information systems.

In June 1993, four groups began to redevelop the information systems, assessing potential vendors, and establishing hardware requirements: Alumni and Fund Development (coordinator: Bing Mah), Financial (Ted Holdaway), Human Resources (Bob Smyth), and Students (Hugh King/Brian Silzer). After 18 months of

broad consultation and lengthy meetings, three different vendors were selected: PeopleSoft—Financial, and Human Resources; SCT Banner Corporation—Students; and Viking Systems Inc—Alumni and Fund Development. All applications are compatible with the ORACLE software platform. Installation and customization of software and consultation with users in Faculties and departments are now underway.

The overall goals of this redevelopment are: improved operational function-

ality and service to users, introduction of distributed processing, elimination of duplicate databases, faster data processing, and integration of the University's databases. Integration would have been easier had one vendor been able to provide acceptable software and support for the four areas. However, this was not possible. An Integration Group is examining opportunities to bridge the four component systems.

To indicate the change in focus from system redevelopment and vendor assessment to implementation, the name Administrative Application Redevelopment Initiative (AARI) was changed to Information Systems Implementation Group (ISIG). Peter Watts, Associate Vice-President (Finance and Administration), chairs ISIG. ISIG consists of group coordinators and the following team leaders who are in charge of installation and training:

- Financial Information Retrieval and Storage (FIRST): Kellie Marchak (1245)
- Valuable Information for the Tracking of ALumni (VITAL): Troy Steele (5035)
- Student Information System (to be named): Mala Beharry (5443)
- Human Resources System (to be named): Keith Gardner (2159)
- CNS: Ruth Simpson (3884)

Information can be obtained from these team leaders. Training will begin in fall 1995 and the first components should be operational by December 1995 (VITAL).

Many benefits are expected once the systems are fully implemented and campus users have the appropriate hardware and training. For example, researchers will have on-line access to the status of their accounts, students will have on-line access to their grades, ordering procedures will be simplified, and paper flow will be vastly reduced.

Ted Holdaway is Professor of Educational Policy Studies.

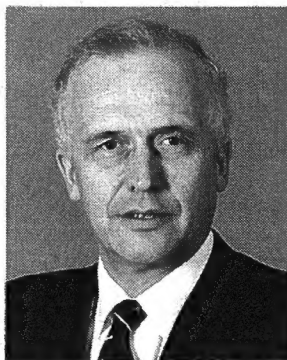
## President eager to strengthen ties with Asian countries

By Folio staff

President Rod Fraser leaves today for a three-week visit to Japan, Hong Kong and Taiwan.

The objectives of this visit are:

- To further the University of Alberta's objectives as an international university;
- To meet people in Japan, Hong Kong and Taiwan involved in activities, offices and institutions associated with the University;
- To strengthen relationships with our partners, alumni and donors;
- To investigate the opportunities to market U of A programs and services.



President Rod Fraser

Dr Fraser will be in Taiwan 8-14 May, Hong Kong 14-19 May, and Japan 19-28 May. His schedule includes meetings with donors (past, present and future), alumni branches, academic partner institutions, Alberta and Canadian government representatives, funding agencies, foreign government offices, and industry and industry representative offices.

The trip is being coordinated by Alberta International in close cooperation with the Development Office and Alumni Affairs.

Dr Roger Smith will be Acting President during Dr Fraser's absence.

## Madrigal Singers bound for Germany

By Folio staff

The University of Alberta Madrigal Singers, one of the Department of Music's choral ensembles, are making last-minute preparations for a two-week tour of Germany and Czechoslovakia, 17-31 May.

The choir is the only North American choir to have been invited to compete in the Robert Schumann International Choral Competition, to be held in Zwickau, Germany, 25-28 May. The competition, named after the German Romantic composer who was born in Zwickau, centres on performance of 19th- and 20th-century music for unaccompanied choirs. More than 20 choirs have been selected through tape audition, from Sweden, Estonia, Latvia, Lithuania, Russia, Ukraine,

Czechoslovakia and Germany, to compete for a total of DM12,000 in prize money.

As part of its tour, the choir of 31 singers will also perform in several other German cities, including Stuttgart, and in Prague. In preparation for the tour, the Madrigal Singers will present a pre-tour concert Monday, 15 May, at 8 pm at All Saints' Anglican Cathedral. Admission is free, with an opportunity given for donations in support of the choir's tour expenses.

The primary sources of funding for the tour are the Offices of the VP (Academic) and the VP (Research), respectively, the Faculty of Arts, the Department of Music, and the Emil Skarin Fund.

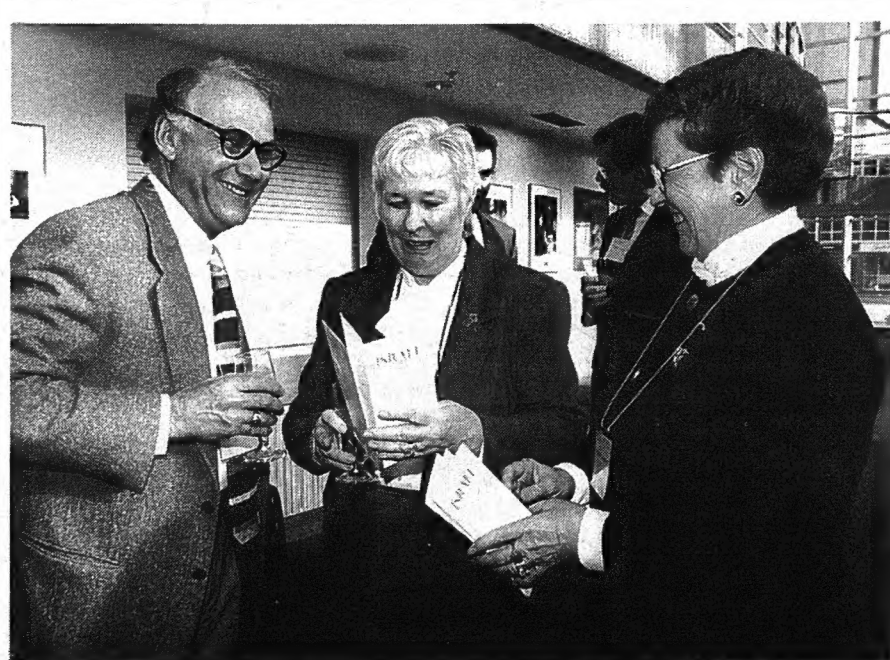


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### MINI-CONFERENCE

MLA Bettie Hewes (centre), who chaired the Faculty of Arts Visiting Committee, chats with committee members Robert Rosen, president and CEO of City Lumber and Millwork, and a member of the U of A Board of Governors, and Margaret Osbaldeston, Citizenship Court Judge, during their tour of the Timms Centre for the Arts on 20 April.

## CURRENTS

### Retirement social for Hugh King

The Registrar's Office invites members of the University community to a retirement social for former Associate Registrar Hugh King. The reception will be held in the Saskatchewan Room of the Faculty Club, Friday, 26 May, 4-6 pm. By request, contributions toward a gift will be donated to St Joseph's College. Please send contributions to Susan Gibson, 201 Administration Building, payable to the Hugh King Gift Fund.

## New Centre

Continued from page 1

Centre is dedicated to promoting collaborative research between scholars and musicians, between the University and the local, national and international communities. It will develop processes for community-sensitive research, and will contribute to the debate, understanding and promotion of music scholarship.

The Music Department at the University of Alberta recognizes that its studies in ethnomusicology are possible only through community cooperation, input and public support. Making the Centre available to the public returns that cooperation and support to the people who helped make it possible.

The Centre for Ethnomusicology officially opened on 2 May, with a reception of invited guests from the province's music and ethnic communities, government, and education, including the U of A.

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*Folio's* mandate is to serve as a credible news source internal audiences by communication accurate and timely information about issues, programs, people and events.

### DEADLINES:

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# Geddes easily recognizable among University's torchbearers

By Ron Thomas

Broad-shouldered and silver-haired, and with a stentorian voice and a non-sense manner, Eric Geddes could have played the role of the bank manager who, believing in people and knowing potential when he sees it, grants the homesteader a sizeable loan. In actuality, he did have much to do with finance—he was a managing partner with Price Waterhouse Co—and he has always related well to people.

In Eric Geddes the University of Alberta has for many years been able to rely on an individual who always dealt in reality, but who also appreciated that today's dream could be tomorrow's revelation. He gave direction and advice when he chaired the Board of Governors in the late '70s, and he also listened and weighed all the options. The same held true in the years 1991 to 1995 when he was Senior External Advisor, Intellectual Property and Contracts Office (now the Industry Liaison Office).

He retired from ILO at the end of March, secure in the knowledge that, with the arrival of Jim Murray as Director in June of last year, the University had the services of "the premier practitioner of technology transfer in Canada."

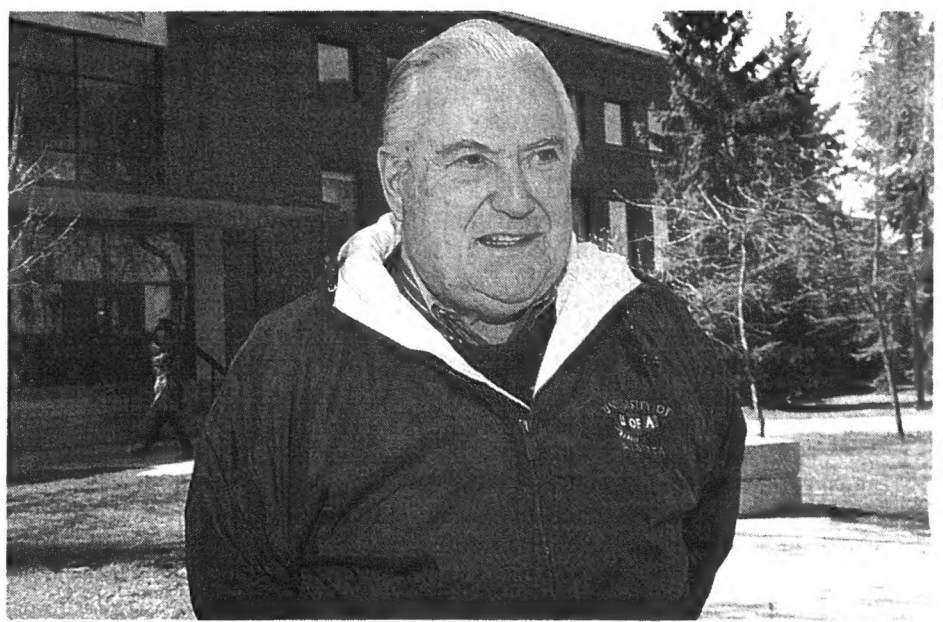
"Eric is so solid and logical, and he's a great supporter of the University," Dr Murray says. "I'm sorry he won't be coming in to the office any more."

Dr Geddes' leading memory of the Board was "the extraordinary good will

and cooperation that existed. It was a great pleasure for me to chair that Board [from 1975 to '78]. Everyone was so open and up-front."

With fiscal restraint settling in and competition for top faculty heating up, Dr Geddes made it known that he wanted Board members who have a sincere commitment to the University rather than people appointed as a kind of community honour. He was instrumental in increasing the number of Board committees, so that all Board work was handled first in the smaller committee setting, and he saw to it that members moved to other committees periodically so that everyone acquired a broader experience of the University.

He had heard "horror stories" about students of the late '60s and was expecting the student representatives on the Board to be obstructionist and radical. Not only did that not happen, he quickly came to value the contributions they made throughout his three-year term. He also came to empathize with students and their continuing problems with tuition fees and other costs and accessibility. "I remember addressing a student rally on the steps of University Hall. It had to do with a \$50 increase in tuition fees, a sum that seems so inconsequential today. We're moving towards a US system and we'll see fees and allied costs rise significantly because of societal pressures.



Eric Geddes reflects with pleasure on his 50-year association with the University of Alberta.

"I'm not pessimistic or gloomy about the restructuring of the University but I am concerned about access to the University."

Dr Geddes predicts that transfer programs will become more prevalent and there will be far fewer 17-year-old freshmen, as he was in the mid-1940s when he began studying for his BCom degree and playing Golden Bears basketball.

The University, he believes, has adapted extremely well to the problems of

the day and it must be mindful of the need to respond to societal changes. "We can't fight them [changes] and plead immunity from pressures. We have to be resourceful and tough-minded and receptive to the whole idea of change."

From 1990 to 1994, Dr Geddes was Chairman of the Board of both the Protein Engineering Network of Centres of Excellence (PENEC) and the Canadian Bacterial

Continued on page 4

## Vederas's teaching ability recognized with Rutherford Award

Students appreciate his use of examples and demonstrations

By Michael Robb

His colleagues in Chemistry know him as a very fine researcher. His students, many of whom do not know of his reputation as one of this country's finest organic chemists, know him as a very fine teacher. And that's the way John Vederas likes it.

This year's recipient of the Rutherford Award for Excellence in Undergraduate Teaching says he enjoys teaching tremendously. "I feel research keeps my interest in teaching alive and vice versa," says Dr Vederas, who also received his Faculty's Excellent Teaching Award in 1993.

He wasn't always recognized as a good teacher. In fact, he admits his first year teaching was a horrible experience. When he started out 18 years ago, he taught material that was way over the heads of his undergraduate students. He tried to convey too much information and his material was often top-heavy with theoretical information.

Fortunately—for him and his students—Dr Vederas took a hard look at what was going wrong. He realized that he had to connect the subject, organic chemistry, with students' interests. He worked more interesting examples into his lectures, began to incorporate analogies into his lectures, use more in-class demonstrations, and he lightened up on the theoretical discussion. He captured students' attentions.

Said one Chemistry 160 student, "Dr Vederas is the most enthusiastic professor I have. His enthusiasm for the topic rubs off on me. I always feel that I have learned something important and worthwhile after his classes."

"In order to spark people's interest, the subject has to be made relevant and important to everyday life," Dr Vederas explains. And, he points out, teaching is to some extent a performance. "People are looking at you and making an evaluation."

Dr Vederas's student evaluations speak volumes. They're outstanding. "He is an extremely hard act to follow," says colleague Ole Hindsgaul, "and the stu-

dents in his own section recognize this with truly extraordinary ratings of 4.7." Adds Chemistry Chair Byron Kratochvil, Dr Vederas's student evaluations in introductory courses to senior graduate courses have ranked at or near the top in the department in all six categories used by the Faculty.

The Chemistry 160 course, one of the University's "mega courses", is a required course for many students on campus. "I had heard many horror stories about Chem 160," explains another student. "Dr Vederas relieved those fears."

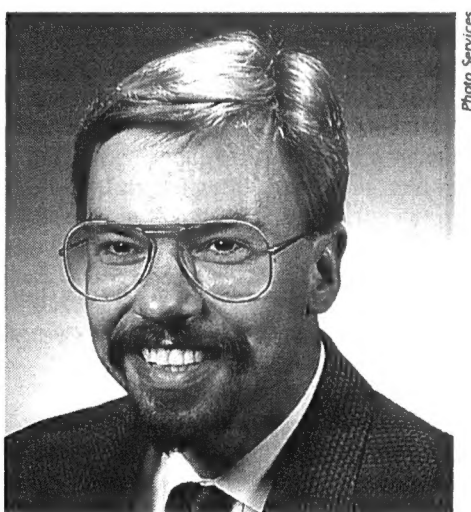
Like many professors on campus who teach large courses, Dr Vederas regrets the lack of one-on-one time. Sometimes, in the large-class environment, students are intimidated and reluctant to ask questions. And some students simply don't want to be there. Those students, forced to enroll

in University by parents or in response to pressures from society, would be better off taking a year off, he says.

"I have a strong affinity with those students who try, with those who put something of themselves into the work."

At the graduate level, he challenges students to keep up. "I expect graduate students to be fully aware of the frontiers of the discipline." Those expectations are common around the Department of Chemistry. "We produce students with PhDs who can go anywhere and do anything," says Dr Vederas, who leads a strong and creative research group.

He believes the University must resist the temptation to overregulate professors in response to the calls for increased accountability. A free and flexible environment allows creative people full expression, he adds.



John Vederas, Professor of Chemistry and a recipient of a 1995 Rutherford Award for Excellence in Undergraduate Teaching.

## From the laboratory bench to the market

Case study of technology commercialization at the Alberta Microelectronic Centre

By Michael Robb

*Diversifying the Alberta economy has been a long-standing goal of its citizens. Here's how the University of Alberta and the Alberta Microelectronic Centre (AMC) are combining forces to do just that. What follows is an example of how it can be done.*

### What is SIMBAD?

SIMBAD is a collection of high-tech electronics tools used by designers and manufacturers to reduce design time and increase the reliability of electronic devices. Developed over the course of about 10 years by researchers at the University and AMC, SIMBAD is used to improve the manufacturing processes used to deposit thin layers of metal and other materials on silicon.

### Who's involved?

The product was developed by three researchers, two at the University of Alberta, Electrical Engineering Professors Michael Brett and Steven Dew, and a re-

searcher at Carleton University, Tom Smy. The researchers have worked closely with AMC staff and have used AMC's laboratory facilities. Says AMC President Chris Lumb, "We believe that a cooperative environment contributes to the creativity that generates new products. In turn this allows us to identify projects that we can directly commercialize. That contributes to the province's economic growth."

### How's the project managed?

In 1993, AMC struck an agreement with SIMBAD's principal developers. AMC obtained exclusive marketing rights, and in return agreed to pay a royalty on sales to the developers and to further develop the product for commercial sales.

### What's happened so far?

SIMBAD isn't a multimillion dollar enterprise yet. However, AMC has generated revenues of almost half a million

dollars from export sales. Three engineers are employed in a new business, working as entrepreneurs, using their technology training to exploit a business opportunity. Strong links have been forged between the University and AMC. And the province's reputation has been enhanced internationally, points out Lumb. "There will be more international opportunities for Alberta industry, researchers and AMC."

### What's next?

The software program will be upgraded. Its authors are developing the next generation of SIMBAD, which will be completed in about 18 months. As the project grows, there are two possible alternatives, explains Lumb. First, SIMBAD could be spun off from AMC and established as a separate company. Or, AMC staff could continue to work collaboratively with SIMBAD's creators on related technologies.



## Steve Melnyk: maintaining a safe working environment

By Dinah Gray

Most of us arrive in our office buildings and greet our colleagues at the beginning of our working day. On the days when Steve Melnyk arrives early at the Ministik Field Station, 35 km south and east of campus, he is often greeted by a large owl that swoops down in front of his truck as he drives through the property. "It is a startling reminder that I am working in a very open and beautiful landscape, where surprises and changes are part of the daily routine."

Melnyk is responsible for the safe working environment available to the Department of Agriculture, Food and Nutritional Science's staff and students at both the Metabolic Unit of the Edmonton Research Station and the Ministik Field Station.

Travelling between facilities from his home base at the Metabolic Research Station means Melnyk spends many hours on the secondary roads in the area. He tries to plan ahead so he can use his time effectively but he admits circumstances beyond

his control, such as the weather, often change his schedule. When trees fall on fences or block roads, he must clear the way before any other work can be done.

Other aspects of his work include coordinating the schedules of all the staff and students who use both facilities and making sure all supplies and paperwork are in order.

Melnyk has always been involved with agriculture: He grew up in a farming community near Stettler and received his BSc in Agriculture from the U of A in 1976. He couldn't imagine working in an office and when a job opening in the Faculty of Agriculture was posted during the summer of that year he knew it was the kind of work he was looking for.

When Melnyk looks back over his 19 years with the Faculty, he points to the inaugural Louis D Hyndman Sr Technician's Award received last November by the team he works with as a highlight of his career. He says he appreciates the opportunities he has been given to learn and grow. When he



Steve Melnyk greets an orphaned fawn that has found sanctuary at the Ministik Field Station.

looks around him at the rolling hills and forested areas he drives through every day he also appreciates that he has one of the most beautiful offices at the University.

## Geddes

Continued from page 3

Diseases Network (CBDN). He shouldered those responsibilities, he says, because he knew the work of the two networks was important to the University and to local companies like Synthetic Peptides and SynPhar Laboratories that are associated with the networks.

At the end of the first four years of the networks' operations, PENCE placed first and CBDN second in the national rankings of the 14 Networks of Centres of Excellence. As a result, PENCE's administrative headquarters were relocated here from UBC. "I'm not a scientist," Dr Geddes quickly points out. "They [scientists] made the difference, but I think I played a meaningful role."

His forte as Senior Advisor in the Industry Liaison Office was working with small and start-up companies. He acted as a mentor to researchers and (then) budding businessmen like Peter Pang (Physiology), whose company, CV Technologies, is developing antihypertensives, and Larry Wang (Zoology), the inventor of the Canadian Cold Buster Bar (recently renamed the Access bar because its special carbohydrate formula is suited for exercise in any season). The initial problems with the bar, he remembers, were determining what the best marketing channels were and being sure that claims such as "enhances metabolism" could be backed up.

Former U of A President Myer Horowitz says it's been his good fortune to have known Dr Geddes for more than 20 years. "I was Vice-President (Academic) when he was Chairman of the U of A Board; I was a trustee, for 10 years, of AHFMR while he was Chairman. Perhaps I came to know him best during 1982-83 when he served as chairman of the financial campaign which we had in conjunction with our 75th anniversary.

"We travelled together, in our attempt to raise funds, to several places including Calgary, Toronto and Montreal. In my view the campaign was very successful and Eric deserves considerable credit. Over and over again I observed that Eric was very highly respected by people whom we met. Many reacted favourably to our appeal because they respected Eric and so valued the activity with which he was identified.

"Several times we were assured in the office of a president or vice-president of a contribution of a particular size. Following our visit I was informed that the donation would be somewhat greater than was first indicated. No doubt our visit had a positive effect."

Dr Horowitz points out that the 75th Anniversary Campaign was important for the funds that were raised at that time but also for setting the stage for fundraising that followed 1982-83.

Eric Geddes was awarded an honorary LLD by this University in 1980, and he's a holder of the Alumni Golden Jubilee Award (1984) and the Faculty of Business Distinguished Alumnus Award (1986). In 1990 he received the Outstanding Contribution Award to Science, ASTech.

His daughter, Elaine, a graduate of the University's Law School, carries on the family name as Associate Dean (Undergraduate Programs) in the Faculty of Business. And one of four Business professorships endowed by philanthropist Francis Winspear is named in honour of Dr Geddes.

This is not to say that the man himself won't be on campus. Far from it. "One never cuts oneself off entirely from something that's been an important part of their life. Plus the Board has given me a lifetime parking pass and I live nearby.

"I'll continue to be involved, one way or another."

## Leading analytical chemist to deliver Boomer Lectures

By Folio staff

The 1995 Boomer Lectures, sponsored by the Department of Chemistry, will be given by Catherine Fenselau of the University of Maryland Baltimore County during the week of 15 May.

Dr Fenselau, who chairs the Chemistry and Biochemistry Department at UMBC, has been a pioneer and leader in the development and application of mass spectrometry to biochemical and medical problems.

An ongoing theme of instrument and methods development in her lab has been the extension of mass spectrometry to the

analysis of heavier molecules, "middle molecules" in the 1,000-10,000 dalton range in the 1980s and full-blown biopolymers through the 1990s. She is now studying covalent sequestration of pharmaceutical agents by endogenous proteins and developing analytical methods for protein-based drugs.

Dr Fenselau received her AB from Bryn Mawr College in Philadelphia and her PhD from Stanford University, where she trained with Carl Djerassi. Additional training was taken at the University of Califor-

nia at Berkeley (with Melvin Calvin and AL Burlingame) and at the NASA Space Sciences Laboratory.

This year's Boomer lecturer is past president of the American Society for Mass Spectrometry, and a member of the American Chemical Society.

The 1995 Lectures (please see "Talks", page 10, for details) are the 36th in a series inaugurated in 1958 to recognize the contributions of Professor EH Boomer, who was associated with the department from 1925 to 1945.

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## ANALYSIS 'Real World Computing'

By Randy Goebel

There may be many places where the phrase "information highway" isn't heard, but I haven't been to any of them lately. The Germans speak of the "infobahn." In Canada, the media is not sprinkled but infected with talk of an inflated data roadway referred to as the Information "Super" Highway. Whatever else it might mean, it is certain that the public is poised for more than \$9.95 pay-per-view on cable television.

Meanwhile, back at the laboratory, Japan's Ministry of International Trade and Industry (MITI) has been convinced to fund yet another long range research project. The *Real World Computing Program* (RWC) has been set up as a special partnership, with the managerial and research participation of several international partners, including Germany, Sweden, Holland, and the United States. Projected expenditure is estimated at 600-700 billion



Randy Goebel

yen, which is a big number in any currency. When someone—anyone—spends that much money it's natural for one with identifiable interest to ask what is being done, and how one can benefit.

But we started off this article with the information super highway, and then shifted to Japan's spending on technology. Where's the connection? One way to understand the connection is this: Real World Computing is a program which will attempt to exploit the best available technology, including the development of new computing methods, to be focused on the development of information systems for providing naive users with common-sense access to the world of information—in a phrase, "vehicles for humans on the information super highway."

As in most large and complex projects, there are many ways to perceive its motivation, goals, and benefits. Some have suggested that RWC is simply a way of creating positions for senior government technical bureaucrats. Others have described it as a followup to the recently completed Fifth Generation Computer Systems project. Still others have per-

ceived it as another phase in advanced digital electronics.

Well, in fact there is some confusion about what the RWC program is, as is obvious from the reactions around the globe. A previous Japanese 10-year project, The Fifth Generation Computer Systems project, evoked a relatively dramatic and swift world response, which resulted in new collaborative efforts in both Europe and the United States. The RWC program has produced a much less dramatic response. For example, the only United States participation is in the area of optical computing; the Canadian response is wholly within character: polite apathy, moderated by a government-commissioned study which has missed the "infobahn" connection.

The confusion and resulting misinterpretation is not surprising, for it exists even at the source of the program. Having been formed by a kind of forced (or at least "unique") marriage of research culture and government-sponsored industrial culture, RWC is understandably an eclectic mixture of "blue sky" and "bottom line." In Canada, similar characteristics

have been displayed by the private precompetitive consortium PRECARN, Inc and its sister research organization, the Networks of Centres of Excellence-funded Institute for Robotics and Intelligent Systems (IRIS).

In the case of the RWC partnership, one apparent confusion is about the respective roles of various hardware and software technologies. This confusion stems from a more fundamental problem. To illustrate, consider the difference between a "device" and a "product," as distinguished by Bill Davidow. Davidow participated in the creation of the first Intel microprocessor, and his analysis of its early success suggests that competitor Motorola's technically superior device was inferior as a product. The concept of a product includes those other aspects that make a device work for a customer: documentation, development support, distribution, and training.

In the case of RWC, many, including Americans and Canadians, have mistakenly identified the goals of RWC with its advanced hardware. The reasoning seems to be that the devices of optical and massively parallel computers hold more interest because they are devices, which naively suggests they are the basis of the ultimate RWC product.

This is both wrong and dangerous. To elaborate, the product of RWC is intimately related to the information superhighway—to the socially and economically successful deployment of the information superhighway.

By this point you're probably wondering what that product is. So is RWC and everyone watching them. At this point, we can only speculate on what the product (or perhaps suite of related products might be), but we can certainly suggest that they will be related to RWC chief scientist Nobuyuki Otsu's concept of "soft logic."

Therein lies the rub—the source of the confusion and misperception. To understand soft logic requires one to have a vision of a "grand challenge" of computing, and to understand that the motivation for soft logic is to create a basis for mounting an attack on that grand challenge.

Randy Goebel is Professor and Associate Chair of the Department of Computing Science.

## Campus Computing Symposium ready to 'put the byte on you'

By Folio staff

It follows that a four-day symposium with the words "The World" in its title will be ambitious. "Campus Computing Symposium 1995—The World at Your Desktop" is that, in spades.

To begin with, it's actually two conferences in one: a Focus on Business conference, 12 June, and the computing symposium proper, 13-16 June, both in the Tory Lecture Theatre complex. The sponsor, Computing and Network Services (CNS), thus deals with the needs and queries of the business and education communities in one fell swoop.

As the organizers, whose number includes some wordsmiths, put it: "Whether you're a novice network navigator, a Webmaster technofreak, or somewhere in between, we've lined up [more than 30] symposium sessions that will help you become a full-fledged CyberCitizen in both the business and educational arenas."

Of the symposium itself, organizers say, "If you're a member of the campus community, you won't want to miss these four days as we will be talking about your future on the Net!"

Jim Carroll, co-author of *Canadian Internet Handbook*, and Ian Graham, author of *The HTML Sourcebook*, a manual for getting up to speed on the World Wide Web, are guest speakers for Focus on Business. Among the individual sessions are an Introduction to the Internet, Making Money on the Internet, Education in the

21st Century, and Web Pages - Advertising Your Business.

The business portion concludes with Martha Piper, Vice-President (Research), and Jim Murray, Director, Industry Liaison Office, speaking on university and industry partnerships.

The symposium opens with a double keynote address by President Rod Fraser ("The Evolution of Education and Technology") and Rick Broadhead, co-author of *Canadian Internet Handbook* ("Exploiting the Internet"). In the session Educational Uses of the Internet, Terry Anderson (Alternative Delivery Initiative) and Werner Joerg (Electrical Engineering) will discuss teaching and learning on the Internet, and there will be an overview and live demonstration of a computer-assisted instruction course developed by the Centre for Technology in Education.

In Our Corner of the World, tour guides George Carmichael (CNS Network Resources), Rob Lake (Computing Science) and Brent Poohkay (Law) will oversee a Web crawl, and Grant Crawford (CNS Service Operations) will talk about netiquette and ethical computing.

As part of the Tools and Techniques session, U of A Web page developers will guide symposium participants through the creation of their own Web presence. There will also be an introduction to object-oriented programming, and a trio of local area network administrators in three

different environments will discuss the challenges they face every week that are not in the manual.

The remaining streams are Advanced Technical Topics, which includes Advanced Web Topics and Security in a Hostile Environment, and Campus Computing Services, which includes CNS Distributed Services Architecture Strategy and which concludes with CNS Director Will English speaking on the organizational development of that unit and on alternative delivery strategies.

More information on the symposium is only a phone call (492-9370) or an E-mail (Symposium95@ualberta.ca) enquiry away. Registration can be carried out via Web page: <http://www.ualberta.ca/SYMPOSIUM/>

## Business co-hosts Western Canada/Mexico conference

Theme is ins and outs of business partnerships

By Sandra Halme

Opportunities is a word which one finds frequently in the conference program for "Western Canada/Mexico - Building Business Partnerships". According to the organizers of the conference, now is the time to get into the Mexican market.

The conference, to be held 1 and 2 June in Banff, will demonstrate how people can get into the Mexican business world through valuable insights and business tips from experts on both sides of the border. For instance, it will give potential business investors and partners an opportunity to explore such aspects as Infrastructure Financing in Mexico; Opportunities for Canadian Business; Legal and Tax Considerations; Maximizing the Opportunities; and Intelligence Gathering in the Mexican Marketplace.

Ted Chambers, Director of the Centre for International Business Studies in the Faculty of Business, conference co-host along with the Instituto Tecnológico Autónomo de México (ITAM), says those attending the conference will have access to the best and broadest-ranging expertise on the key issues related to investment in, or expansion to, Mexico.

"Participants can be assured of a quality focus on crucial issues," such as legal and financial structuring and strategic

alternatives," Dr Chambers says. The key, he adds, will be the highlighting of trade and business opportunities between western Canada and Mexican businesses. "This will be an excellent opportunity for people to evaluate the potential for joint ventures with Mexican companies."

Dr Chambers notes that this will also be an ideal time for businesspeople to network with Mexican government officials, businesspeople and academics. Among those scheduled to attend are: the Mexican Ambassador to Canada; the Canadian Ambassador to Mexico; the Mexican Minister of Trade; the Rector of ITAM; and Mexican venture capitalists.

Conference participants will be welcomed the evening of 31 May by the Honorable Murray Smith, Alberta Minister Responsible for Alberta Economic Development and Trade. The conference will open on 1 June with a breakfast address by the Honorable Lloyd Axworthy, federal Minister for Western Economic Diversification Canada. Remarks by Brian MacNeill, president and CEO of IPL Energy Inc, will follow. As well, the Right Honorable Joe Clark, former Prime Minister, will address the final day breakfast meeting.

For more information on the conference, call 492-2235.



**Sealing the deal:** Rosemary Campbell, IBM's National Education Manager for Canada, congratulates Dean Harvey Zingle of the Faculty of Education on the donation of multimedia equipment which had been provided to the Faculty for the development of interactive learning materials. The event was part of a review of progress in the Jean Talon project. Talon project principals Sharon Jamieson and David Mappin witness the symbolic handshake. This donation represents an evolving relationship between IBM and the Faculty of Education to explore aspects of the design and use of computer-based media in education.



## Graduate Student Teaching Award winners

The Deans, in consultation with their Faculty's staff and students, have selected 36 teaching assistants as the recipients of the University of Alberta Graduate Student Teaching Awards. The awards are given annually by the GFC Committee for the Improvement of Teaching and Learning (CITL).

University Teaching Services administers the nomination and granting procedures.

Awarded to students who show commitment to their work and a superior command of the subject matter, the honour recognizes those outstanding TAs who are able to read the needs of their students.

Recipients of the award received a certificate and a letter suitable for their teaching dossier, signed by President and Vice-Chancellor Dr Roderick D Fraser and Bente Roed, Director of University Teaching Services.

### 1995 GSTA RECIPIENTS

#### Faculty of Agriculture, Forestry, and Home Economics

Maria Mayan, *Department of Human Ecology*

#### Faculty of Arts

Xinjie Cui, *Department of Psychology*  
Erin Haid, *Department of Drama*  
Mary-Beth Wolicky, *Department of English*

#### Faculty of Business

Greg Berry

#### Faculty of Education

Joanne Bardak, *Department of Educational Psychology*  
David Calhoon, *Department of Elementary Education*  
Ingrid Johnston, *Department of Secondary Education*  
Kathy Sanford-Smith, *Department of Secondary Education*

#### Faculty of Engineering

Andy Jenkins, *Department of Chemical Engineering*  
Bill Peck, *Department of Mechanical Engineering*  
Dana L Turner, *Department of Mining, Metallurgical and Petroleum Engineering*

#### Faculty of Medicine

Kerry Lynn Hull, *Department of Physiology*

#### Faculty of Nursing

Maria Golberg

#### Faculty of Pharmacy and Pharmaceutical Sciences

Keith Anderson

#### Faculty of Physical Education and Recreation

Donna Goodwin  
Shannon Herter

#### Faculty of Rehabilitation Medicine

Debbie Hall-Lavoie

#### Faculty of Science

Yoram Apelblat, *Chemistry*  
Solweig Balzer, *Geology*  
Mark Barling, *Geography*  
David Barnett, *Chemistry*  
Charles Carter, *Chemistry*  
Sean M Drake, *Psychology*  
Richard Evoy, *Geology*  
David Hansen, *Biological Sciences*  
Shaun C Hendy, *Physics*  
Allen W Herman, *Mathematical Sciences*  
Kristine Justus, *Biological Sciences*  
Robert Mullen, *Biological Sciences*  
Stephane Nechtschein, *Physics*  
Norman Neumann, *Biological Sciences*  
Alejandra Premat, *Mathematical Sciences*  
Nicole Trepanier, *Biological Sciences*  
Philip Wickens, *Chemistry*  
David Woloschuk, *Computing Science*

## University celebrates outstanding contributions of graduate students

### Elementary Education Professor Grace Malicky receives GSA Outstanding Academic Award

By Michael Robb

It was a night to celebrate the contributions graduate students make to the teaching and research conducted at the University of Alberta. And the Graduate Student Awards Night, 1 May, was also a night to honour faculty and community members who support those graduate students.

The event was sponsored by the Graduate Students' Association and the Faculty of Graduate Studies and Research.

This year's recipients of the Andrew Stewart Memorial Graduate Prize,

awarded for excellence in research at the doctoral level, are:

• John Amis, *Physical Education and Recreation*

Istvan Berkeley, *Philosophy*

Brian Cherwick, *Modern Languages and Comparative Studies*

Reuben Harris, *Biological Sciences*

Ingrid Johnston, *Secondary Education*

Gregory Kennedy, *History and Classics*

John Klassen, *Chemistry*

David Lamb, *Physics*

Loralie Langman, *Laboratory Medicine and Pathology*

Sharon Morsink, *Physics*

Lisa Olenik, *Physical Education and Recreation*

Rauno Parrila, *Educational Psychology*

Lilianna Rossi, *Modern Languages and Comparative Studies*

Stefan Scott, *Electrical Engineering*

Shirleen Smith, *Anthropology*

Wee-Kee Tang, *Mathematical Sciences*

Zongli Tang, *Sociology*

Karen Wall, *Physical Education and Recreation*

Zhanping Xu, *Chemical Engineering*

Yan-Ni Zhang, *Chemistry*

The GSA Prize for Graduate Student Teaching was awarded to Maria Golberg, *Nursing*; Donna Goodwin, *Physical Education and Recreation*; Erin Haid, *Drama*; and Allen Herman, *Mathematical Sciences*.

The Jack and Zeta Rosen Family Prize for Graduate Student Teaching, awarded to the top-ranked candidate for the GSA Prize for Graduate

Student Teaching, was awarded to Biological Sciences student Norman Neumann.

The Faculty of Business Volunteer Recognition Award, awarded to a student enrolled in the Master of Business Administration program who has contributed to the community through outstanding volunteer work, was presented to John Landry. The University of Alberta Library Professional Development Award, given in recognition of the outstanding professional and academic achievements of a student enrolled in the Master of Library and Information Studies program, was presented to Gale Mazure.

The GSA Graduate Student Service Award was presented to Steven Karp, for his outstanding volunteer services to graduate students and to the University. The GSA Outstanding Non-Academic Staff Award was presented to Lynn Van Reede (Sociology) for her extraordinary assistance to graduate students.

Grace Malicky (Elementary Education) was awarded the GSA Outstanding Academic Award for her outstanding teaching, supervision, advocacy and assistance offered to graduate students. And the GSA Distinguished Benefactor Award was presented to Stan Milner, former Board of Governors Chair, for his significant contributions of time, effort and funding which have been of assistance to graduate students.

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# U of A key player in Russia-Canada collaborative federalism project

Economists, political scientists explaining fiscal federalism to Russian students

By Michael Robb

Canada's fiscal federalism has its critics, to be sure. But it also has its admirers, six of whom are senior Russian officials who recently visited the University of Alberta to take a crash course.

## RUSSIAN PARTICIPANTS

Leonid Kosopanov, 39  
Head of Department of Finance, Administration of Kostroma Oblast  
Lyudmila Lykova, 34  
Chief expert, Centre for Social and Economic Issues of Federalism, Institute of the Economy, Russian Academy of Science  
Nikolai Khudykh, 46  
First Deputy of the Head of the Department of Economy, Administration of Krasnoyarsk Region  
Victor Boychenko, 53  
Deputy Head of Department, Department of Structural Policy, Ministry of the Economy  
Adilia Konoval, 35  
Head of Department of Territorial Budgets, Committee for Economy and Finances, Mayor's Office, St. Petersburg  
Konstantin Sibiryakov, 33  
Consultant on financial problems, taxes and costs, Administration of Kareliya

The Russians were here to study the workings of fiscal federalism with some of this University's—and Canada's—most respected economists and political scientists, many of whom are well known for their work in the area.

"It's no accident that they came to the University of Alberta," says co-host Paul Boothe (Economics). "This is one of the leading places in Canada to study fiscal federalism," he says, noting that the Western Centre for Economic Research has a well-established reputation in the area.

The six Russian students arrived in Ottawa in late February, where they were briefed by federal officials, practicum hosts and instructors. They then began a week-long series of courses at the U of A with economists and political scientists, learning about the theoretical underpinnings of fiscal federalism and examining Canadian case studies.

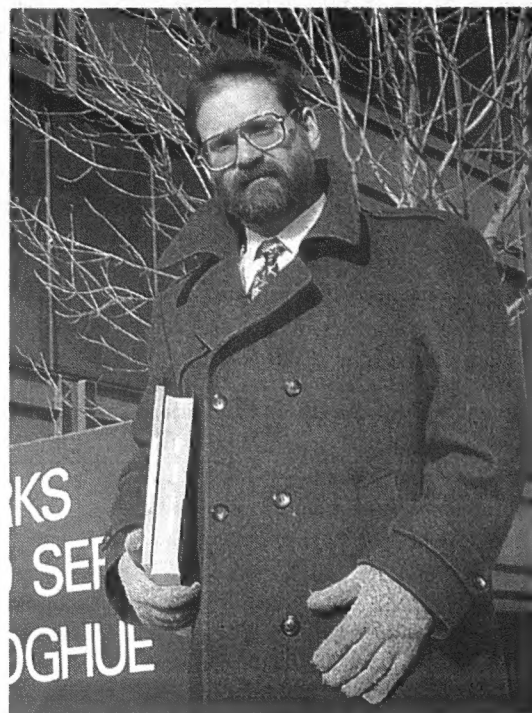
The students then travelled in pairs to practicum sites in Victoria, Regina and Ottawa where they gained first-hand experience in the fiscal environment. They met with finance/treasury officials and with specialists in intergovernmental affairs.

They then returned to Edmonton, where they discussed what they had learned in the provincial and federal envi-

ronments. In the latter part of that week, they began to prepare papers discussing the application of their knowledge of the Canadian experience to some of the problems facing the Russian federation.

Later this month, the students will present that work on fiscal federalism to their Russian federation counterparts, at a conference in Kareliya. They'll be joined by the conference advisors, who will act as resource people. One of the objectives of that conference, says Dr Boothe, is to come away with concrete plans for trying to develop fiscal federalism in Russia. "We're not trying to graft the Canadian system on to the Russian system," he says, but it's likely the Russians will adopt some form of federalism.

The project was organized by the provincial government's Federal and Intergovernmental Affairs Department, the Federal Department of Foreign Affairs and International Trade and the Western Centre for Economic Research, in response to an agreement reached in Vancouver by then-Prime Minister Brian Mulroney and Russian President Boris Yeltsin.



Paul Boothe, Professor of Economics

The project will have short- and long-term benefits. Canada and Russia will learn from one another; formal and informal links will be established. The University's reputation as a centre of excellence for research on fiscal federalism will be enhanced. Longer term research collaborations will be established. And new areas of research will likely emerge.

"It certainly is an opportunity for our people to see our own country through their eyes," explains Dr Boothe. "We tend to focus on the things we want to change and forget that we have one of the best systems in the world. There's a lesson for Canada: wake up and realize how well this works. Our ability to continually make changes and find new ways of adapting are strengths of the system."

It's not enough simply to implement fiscal federal structures. The changes will have to be deeper and more culturally significant. For example, one Russian student asked a profound question: Why would anyone want to willingly pay taxes?

"The challenges they face are staggering," says Dr Boothe. However, he points out that Russia has a well-educated population and a strong desire to make things work. Senior public servants are also young and committed.

"You have to be optimistic."

## U of A expertise used by Ukrainian university to establish career and job centre

CaPS Director Wendy Coffin assists University of Kiev-Mohyla Academy

By Michael Robb



University of Kiev-Mohyla Academy

It's not easy for universities accustomed to operating within totalitarian regimes to make the transition from a state-controlled political environment to a democratic, free market environment. In the more open, post-Soviet Union environment, many Ukrainian academics have focused their attentions on curriculum changes. What will we teach? How will we teach it? Who will teach it?

But while Ukrainian academics have had to come to grips with the questions related to curriculum, they've also had to increasingly turn their attention to more

functional ones. How will we fund our institutions? How will we recruit students? What kind of support services do we need?

The University of Kiev-Mohyla Academy recently turned to the University of Alberta's Career and Placement Services Director, Wendy Coffin, to help establish its career and job centre. With federal funding assistance from the Canada Ukraine Partners Program (CUPP), Coffin recently travelled to Kiev for five weeks.

"Nothing existed before I arrived," explains Coffin. So, with local assistance, the office was set up on campus. The nuts and bolts were put in place: filing systems, job postings, lists of publications, policies and procedures and record keeping. Two people were hired to operate the centre, and an advisory committee was established for the centre.

"I think I succeeded in getting the university to understand what a career centre is, how it supports the university and how it maintains links with employers," Coffin says. She also spoke with students and met with employers.

There is a much more profound change that must take place, she explains. Students have to come to grips with two ideas: employers now have choices, and potential employees now have to compete

for jobs. Coffin says some of the younger students seem to be prepared to do the latter. Older students want to believe it will work.

The U of A-Mohyla Academy relationship didn't end with Coffin's return. She will continue to maintain contacts with the newly established career centre by fax and the Internet. Coffin has also asked career centres around this continent to lend assistance with supplies and services. Meantime, Grant MacEwan Community College will play host to four Ukrainian students in May and June. One of those students will work in the U of A's CaPS centre.

The CUPP is expected to place 160 Canadian volunteers in Ukraine and bring 40 Ukrainian volunteers to Canada for on-the-job training.

## A SKETCH OF MOHYLA ACADEMY

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## Civil Engineering Professor receives CSA's most prestigious award

*Laurie Kennedy developed standards at national and international level*

By Folio staff

One of this country's most respected civil engineering academics, University of Alberta Professor Emeritus Laurie Kennedy, is one of two recipients of the 1995 John Jenkins Award.

The Canadian Standards Association award is the most prestigious, and has been awarded to only 11 people in the last 16 years. It is awarded by the CSA to recognize people who have fostered the development and advancement of standards

at the national and international level.

Professor Emeritus Kennedy's association with the CSA began in 1962. He was instrumental in the development of the last working stress design standard for steel structures in Canada and has been involved over the years with the American Society of Civil Engineers and the International Standards Association's committee work.

Since his retirement in 1994, he has remained active in his profession.

## Rural economy in flux

By Folio staff

The countryside is being turned upside down these days, observes LP (Peter) Apedaile, a Professor of Rural Economy and a 1994-95 McCalla Research Professor.

The rural economy, he notes, is restructuring rapidly, as agriculture and other natural resource industries industrialize. "Concern," he says, "grows steadily about the uncompensated effects of the changes on the environment, and upon households, rural communities and regional development."

Dr Apedaile wants to slow, if not halt, the spreading of these problems by applying science to complexity using what is called 'complex dynamical systems theory'. The approach, which is a fresh one, draws upon differential equation models and bifurcation theory from mathematics, predator prey theory from ecology, human behaviour theories from sociology, trade and development theory from

economics and theories of strange attractors from chaos theory.

"I work with a small group of talented people at the University of Alberta, at the Institut National de Recherche Agronomique in Montpellier, France and at Southwestern Agricultural University in Chongqing, China, Dr Apedaile says. "The pluridisciplinary aspect of our research is facilitated by the 'Agricultural and Rural Restructuring Research Network' funded by the Social Sciences and Humanities Research Council."

He describes his McCalla Professorship as "an exciting opportunity to draw out more intuition and confront it with analysis and data."

"The work has grown from unfocused beginnings during an assignment in Nepal, during 1978-80, to an enterprise regularly inspiring new insight and understanding on farm incomes, government policy, sustainable agriculture and rural trade and development strategy."

## Library and Information Studies student wins American Library Association award

By Folio staff

A student in the School of Library and Information Studies at this University is this year's recipient of the Reference and Adult Services Division Business Reference and Services Section (BRASS) Disclosure Student Travel Award.

Tracy Turnbull has been awarded \$1,000, donated by Disclosure Inc. The award enables Turnbull to attend an American Library Association Annual Conference.

"Tracy has demonstrated a strong interest in a career as a business librarian,"

says Judy Wiza, chair of the BRASS disclosure student travel award committee.

Turnbull worked as a reference assistant at the University until December 1994, and served as volunteer marketing co-chair for the Edmonton Freenet. She won a nationwide competition for a coop student position at the Information Resource Centre of Bell Northern Research, Ottawa, and is a recipient of the Sarah Rebecca Reed Memorial Scholarship for outstanding performance in the first year of the master's program in Library and Information Studies.

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Population Research Laboratory, Department of Sociology  
University of Alberta, Edmonton, AB T6G 2H4  
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## SSHRC fellowships awarded to two U of A researchers

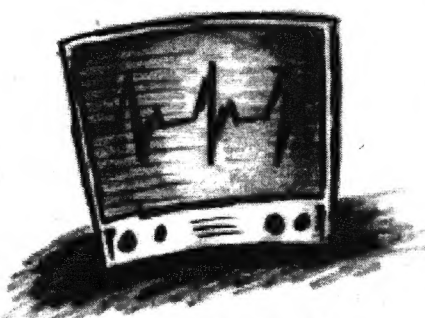
By Michael Robb

Two researchers working at the University of Alberta will receive Social Sciences and Humanities Research Council of Canada postdoctoral fellowships.

Martha Taylor (Education) and Walter Vanast (History) are two of 110 of the country's most promising new scholars. The recipients have earned their doctorates in the past three years and will undertake full-time research work at universities or research institutions over the next two years.

Five other Albertans were awarded the prestigious awards. Andrew Carnie (Linguistics) will study at the University of California at Santa Cruz; Daniel Coleman (English Canadian Literature) will study at the University of Manitoba; Debra Jensen (Religious Studies) will study at the University of Calgary; Kevin Sauvé (Philosophy) will study at New York; and Joseph Zizek (History) will study at Stanford University.

Fellowship recipients are selected by juries of specialists. There were 689 applicants in this year's awards competition. About one in six were granted a fellowship valued at \$27,984 per annum.



What's an  
Advance  
Directive  
and why  
do I need  
one?

An Advance Directive (sometimes called a living will) is the document that gives directions in advance about what you want done — or not done — if you become unable to make decisions for yourself.

If you have ever thought about the kind of treatment you would want if you were seriously ill or injured and could not communicate, you need an Advance Directive.

Is it just like a  
power of attorney then?

No. The person you appoint makes decisions about your person, not your property. Health care decisions are among the most important.

But I have already  
told my children how I feel.

In Alberta, an Advance Directive must be in writing.

Anne de Villars acts for families in Grande Prairie and Old Strathcona. She helps clients get their affairs in order by preparing wills, enduring powers of attorney, advance directives, trust deeds, and dependent adult applications. Anne also does estate administration and estate dispute resolution, including litigation if necessary.

Anne has extensive experience in trust law. As counsel for the Alberta Law Reform Institute, she revised the rules of practice for the administration of estates and helped draft a plain language will precedent for Alberta law firms.

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NEAR THE UNIVERSITY



# University-Industry collaboration for life-saving drug therapy

By Judy Goldsand

The research Randall Yatscoff is doing will make a critical difference in the lives of transplant patients. He leads a research team working to develop a faster, more effective method of monitoring the immunosuppressive drug, cyclosporine.

Dr Yatscoff, who is Professor of Laboratory Medicine and Director of Medical Biochemistry at the University of Alberta Hospitals, is conducting this research in collaboration with Ciba Corning Diagnostics Corporation. Ciba Corning, a leading manufacturer and worldwide supplier of medical diagnostic products, is investing more than \$420,000 to find a better method of monitoring cyclosporine therapy in order to determine a dosage that would give an individual maximum effectiveness with minimal side effects.

An organ transplant gives some fortunate people a new lease on life. However, their capability of carrying on a productive quality of life depends upon the body's ability to keep the organ functioning well. All transplant recipients must take an immunosuppressive drug for their lifetime to ensure that the body doesn't reject the organ.

Cyclosporine is an immunosuppressive agent commonly used after transplants to prevent organ rejection or harmful side effects. Since the drug is highly toxic, frequent monitoring is necessary during the days, weeks and months following surgery. The effectiveness of such

monitoring depends of the specificity, precision and accuracy of the method used in measurement.

"None of the assays [ways to measure the drug in the blood] that are currently available meet all the requirements for accuracy, fast turnaround time and measuring the relevant portion of the drug," Dr Yatscoff explains.

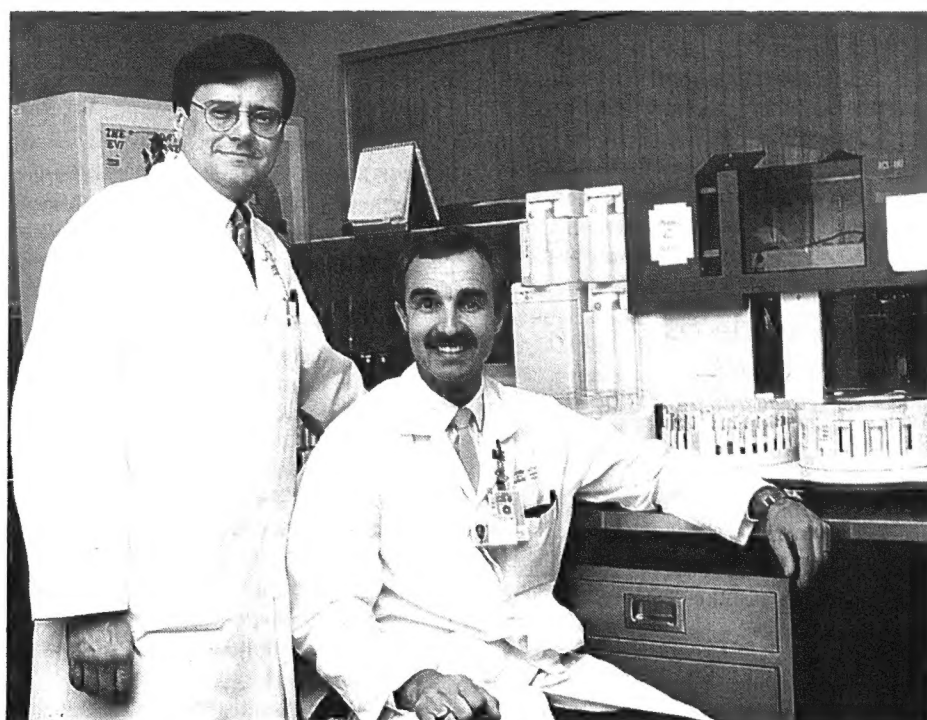
Dr Yatscoff and his research team, which includes Dr Donald LeGatt and Dr Andrew Malcolm, have the first stage of the research—production of antibodies—successfully under way. After developing a variety of antibodies and testing them at the University of Alberta, the best one will

**"The industry needs a fully automated and cost-effective assay that is highly specific for cyclosporine."**

*Dr Alan Burkhardt*

be adapted for Ciba Corning's high volume automated analyzer that uses chemiluminescent technology to measure cyclosporine. The project is expected to take about 18 months.

"The industry needs a fully automated and cost-effective assay that is highly specific for cyclosporine," says Dr Alan Burkhardt, Ciba Corning's executive director of Immunoassay Development.



*Drs Randall Yatscoff, left, and Donald LeGatt, collaborators on the project involving the development of an optimized assay for cyclosporine by automated analysis on the Ciba Corning ACS 180 instrument shown in the background.*

"Our aim is to develop this by combining Dr Yatscoff's expertise in immunosuppressive therapies and antibody production with the automated diagnostics expertise of Ciba Corning."

Dr Philip Gordon, Professor and Chair of the Department of Laboratory Medicine

and Pathology, says, "It is rewarding to have international companies recognize and invest in the research expertise in Canadian universities. This project is a fine example of the benefits of cooperation between industry and academia in our medical centre."

## Pandas star exemplifies the term student-athlete

By Ron Thomas

The athletes who excel are those who have natural talent, work hard and are able to think a play or two ahead and anticipate what's going to happen. In Miroslava ("Mirka") Pribylova, the University of Alberta has just such an athlete.

Pribylova, a first-year Panda volleyball player with several years' quality playing experience, spearheaded the team to an undefeated season (21 consecutive victories) that culminated in a Canadian Interuniversity Athletic Union championship. Throughout the season, the first in which a Pandas team went undefeated, it was Pribylova who decided on what the attack would be and who would hit the ball. In Pandas' rallies she handled the ball virtually every second time.

What immediately impressed me and her teammates was the depth of her experience at all levels of the game, says coach Laurie Eisler. "She raised the level of play of everyone around her."

Pribylova, who grew up in Brno in the Czech Republic, has been playing the game since she was eight years old, and her talent and years of hard work paid off in her winning a spot on Czechoslovakia's National Volleyball Team and competing in four European Cup Championships.

She gravitated to university ball after coming to Edmonton to visit her sister, who has lived here for seven years. She considered taking physical education at the U of A, one reason being that she could get a better job at home if her English-language skills were improved. (Pribylova has already passed her Test of English as a Foreign Language (TOEFL) exam but, needing to gain three more points, will write it again in June.) It was also about this time that former Pandas coach Suzi Smith approached her about playing for the team. She registered as an

unclassified student and wound up having a "smashing" year, one made doubly special by her receipt last month of a Universiade '83 Scholarship.

Also last month, she and teammate Andrea Oh spent four days in Yellowknife coaching 15- 18-year-old volleyball players who will represent the Northwest Territories at the Western Canada Games this summer.

"University volleyball is very competitive," Pribylova says, "but the calibre is not as high as in Europe and the season isn't nearly as long. The [CIAU] players are more excited about playing, however."

She's confident that "Pandamonium" will reign again next year because all of this year's players are eligible to return.

The Universiade '83 Scholarship program was created from a surplus of funds from the 1983 University Games which were co-hosted by the University, the City of Edmonton, the Province of Alberta, and the Government of Canada. Each year, some 45 Universiade '83 Scholarships are awarded to U of A students at a value of \$2,500 each. The purpose of the award is to further the ideals of those games and recognize the academic abilities of the recipients and their skills in either sports or fine arts.



*"Mirka" Pribylova accepts her Universiade '83 Scholarship from Jim Hole, Chair of the Universiade '83 Foundation, left. Also shown is Dr Roger Smith, Acting Vice-President (Academic). The Pandas star wants to "maintain a lifelong involvement in sports."*

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## AGRICULTURAL, FOOD AND NUTRITIONAL SCIENCE

18 May, 12:30 pm  
Roisin McGarry, "Pollen Aperature Polymorphisms." 1-30 Agriculture-For-estry Centre.

## BIOCHEMISTRY

9 May, 4 pm  
Ulrike Novak, Department of Medicine, University of Melbourne, Parkville, Victoria, Australia, "Activation of the JAK/STAT Signalling Pathway by CSF-1." 4-70 Medical Sciences Building.

## BIOLOGICAL SCIENCES

26 May, 3:30 pm  
Chris Gillies, professor of genetics, School of Biological Sciences, University of Sydney, Australia, "Acrocentrics, Metacentrics and Robertsonian Translocation-Synaptonemal Complex Studies of Meiotic Pairing Initiation." G-116 Biological Sciences Centre. This seminar is part of the Genetics 605 Seminar Series.

## CENTRE FOR GERONTOLOGY

24 May, 7:30 pm  
Norah Keating and Shauna-Vi Harlton, "Elder Care of Just Caring: Defining the Boundaries." RSVP: 492-4718. 2-50 University Extension Centre.

## CENTRE FOR INTERNATIONAL BUSINESS STUDIES

10 May, 3 pm  
Takehiko Ikegami, associate professor, Faculty of Economics, Niigata University, Japan, "The Taxation System in Japan: An Overview." RSVP: 492-2235. 4-16 Business Building.

## CHEMISTRY

8 May, 11 am  
Stephen W Kaldor, head, Combinatorial Chemistry, Lilly Research Laboratories, "Design of Inhibitors of Viral Proteases." V1-07 Physics Wing.

# TALKS

17 May, 6 pm (dinner); 7:30 pm (lecture)  
Chemical Institute of Canada Edmonton Section Annual General Meeting. Martha Piper, "Science Matters." RSVP: 988-4000. Faculty Club.

Edward Herbert Boomer Memorial Lectures. Lectures will be given by Catherine Fenselau, University of Maryland Baltimore County. All lectures will be held in V-107 V-Wing. Dates and times are:

15 May, 11 am  
"Protein Analysis by Mass Spectrometry."

16 May, 11 am  
"Laser Desorption and Its Interface with Gel Electrophoresis."

17 May, 11 am  
"Thermochemical Studies of Gaseous Peptides."

18 May, 11 am  
"Covalent Sequestration by Metallothionein."

## ECO-RESEARCH CHAIR IN ENVIRONMENTAL RISK MANAGEMENT

12 May, 1 pm  
Dennis Paustenbach, McLaren/Hart, Environmental Engineering Corporation, ChemRisk Division, "Risk Assessment of Sites Contaminated with Chemical Carcinogens: How to Go Wrong?" 2F1.04 Mackenzie Health Sciences Centre.

## EDUCATIONAL PSYCHOLOGY

10 May, 9 am  
Ernest Rossi, psychologist, hypnotherapist, and author of the *Psychobiology of Mind-Body Healing*,

"An Introduction to Mind-Body Healing Theory." A workshop will be held the rest of the day. Information: Monty Nelson, 436-4109. Sponsor: Graduate Students' Association. 2-117 Clinical Services Building.

## LIBRARY

10 May, 10 am  
Paul Evan Peters, executive director, Coalition for Networked Information, Washington, D.C., "The Coalition for Networked Information: Promoting the Creation and Utilization of Information Resources in Networked Environments." L-1 Humanities Centre.

## PERINATAL RESEARCH CENTRE

9 May, noon  
Kathleen Eyster, associate professor, Departments of Pharmacology and Physiology, University of South Dakota, "Protein Phosphatase Activity Against Protein Kinase C-Phosphorylated Substrates in the Ovary." 2J4.02 Mackenzie Health Sciences Centre.


16 May, noon  
Anila Verma, graduate student, Department of Obstetrics and Gynecology, Royal Alexandra Hospital, "Disproportionate Fat Distribution in Newborns and Maternal Plasma Glucose Levels." 2J4.02 Mackenzie Health Sciences Centre.

23 May, noon  
Virginia Brooks, associate professor, Department of Physiology, Oregon Health Sciences University, Portland, "Angiotensin II-Baroreflex Interactions in Long Term Regulation of Blood Pressure: An Hypothesis." 2J4.02 Mackenzie Health Sciences Centre.

30 May, noon  
Jeffrey Schwartz, assistant professor, Department of Obstetrics and Gynecology, Bowman Gray School of Medicine, Wake Forest University, Winston-Salem, North Carolina, "Variations on the Identity, Function and Source of ACTH During Development." 2J4.02 Mackenzie Health Sciences Centre.

## PHYSIOLOGY

18 May, 3 pm  
Mordecai Blaustein, University of Maryland, "Recent Studies in Snake and Scorpion Toxins on Potassium Channels." 207 Heritage Medical Research Centre.  
19 May, 3:30 pm  
Steve Harvey, "Parathyroid Hormone: Neural and Neuroendocrine Perspectives." 207 Heritage Medical Research Centre.

 This symbol denotes environmentally-related seminars/events. If you wish to have an environmentally-related event listed in this way, please contact: The Environmental Research and Studies Centre, 492-6659.

# LAURELS

■ Tim Goddard and Geoff Riordan, PhD students in Educational Administration, attended the National Graduate Student Research Seminar in Educational Administration, 21 and 22 April, in San Francisco. They were selected, together with 38 other doctoral students, from many nominees in the major universities in North America which teach educational administration. This seminar was sponsored by the American Educational Research Association, the University Council for Educational Administration, and Corwin Press. Activities included presentations by participants about their doctoral research and by distinguished faculty members.

■ Fourth-year law student Anne Marie Godin has been awarded the 1995 Edmonton Consular Ball Scholarship in International Studies. She will receive \$1,000 for her proposed research topic, "Gender Issues in Sub-Saharan African Structural Adjustment Programs," and is eligible to receive an additional \$1,000 to cover travel expenses. The scholarship(s) is sponsored by the Edmonton Consular Corps, the only consular corps in Canada to take this kind of initiative in education and international affairs. The research topic of the recipient(s) must focus on the preservation of world peace and must involve the United Nations and its agencies. The travel portion of the award is used to carry out research at any UN headquarters.

■ Edgar Jackson (Geography) is this year's recipient of the Allen V. Sapora Research Award given "for excellence in research that makes a significant contribution to the knowledge base of park, recreation and leisure professions". He is the second Canadian and the first geographer to win the award, which has been presented annually at the University of Illinois since 1986.

■ Shrawan Kumar (Physical Therapy) delivered an invited plenary speech to the first Annual Congress of the Federation of Indian Physiological Sciences, 1-3 March, in New Delhi. His talk was entitled "An ergonomic strategy for prevention and control of musculoskeletal injuries."

■ Shirley Stinson (Professor Emeritus of Nursing) was recently awarded the 1995 Teachers College Columbia University Distinguished Alumni Award in New York City. Dr Stinson has also been recognized with the Ideal of Service Award from the Rotary Club of West Edmonton for "outstanding contribution to the nursing profession throughout North America".

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# EVENTS

## EXHIBITIONS

### EXTENSION CENTRE GALLERY

Until 31 May  
"Students' Work 1994-95"—an exhibition of works by Faculty of Extension students during the past year. Gallery hours: Monday to Thursday, 8:30 am to 8 pm; Friday, 8:30 am to 4:30 pm; 9 am to noon, Saturday. Information: 492-3034. 2-54 University Extension Centre.

### McMULLEN GALLERY

Until 1 July  
"Vladimir Sevcik—Recent Paintings." Gallery hours: Monday to Friday, 10 am to 4 pm; Saturday and Sunday, 1 to 4 pm; Tuesday, Wednesday, Thursday, 6 to 8 pm. Information: 492-8428 or 492-4211. Mackenzie Health Sciences Centre.

## THEATRE

### STUDIO THEATRE

11 to 20 May, 8 pm

"Nothing Sacred" by George F Walker. Directed by MFA directing candidate Randy White. Designed by MFA theatre design candidate Melinda Sutton. Tickets and information: 492-2495. Timms Centre for the Arts.

### WOMEN'S PROGRAM, FACULTY OF EXTENSION

12 to 16 June  
Women's Words: Summer Writing Institute. A week of life-writing, poetry with award-winner Di Brandt, evening readings by published writers and more. Call 492-3093 for a detailed brochure.  
12 June, 7:30 pm  
Reception and book launch of *Other Voices*. 2-36 University Extension Centre. Cosponsored by Other Voices Collective and Women's Program.  
15 June, 6:30 pm  
Dinner and reading with Di Brandt. Dinner at 6:30, reading at 8. Call 492-3093 to register. Fee: \$20.

# POSITIONS

*The University of Alberta is committed to the principle of equity in employment. As an employer, we welcome diversity in the workplace and encourage applications from all qualified women and men, including Aboriginal peoples, persons with disabilities, and members of visible minorities.*

## ACADEMIC STAFF

### CHAIR, DEPARTMENT OF EDUCATIONAL POLICY STUDIES

Applications and nominations are invited for the position of Chair of the Department of Educational Policy Studies. The department offers master's and doctoral degrees in a wide range of disciplines. It also contributes to the preservice preparation of teachers. Candidates must possess an earned doctorate, K-12 and university teaching experience, knowledge of emerging trends in leadership roles in schools and institutions of higher education, experience

teaching at the graduate level and supervising doctoral dissertations, a distinguished record of scholarly activity, and an interest in field-based research and collaboration.

The department chair is responsible for providing leadership toward the achievement of excellence in teaching, research, and service by faculty and staff; and the scholarly pursuit of knowledge by students. Because of the nature of the department, the candidate should be able to relate to staff in disciplines/fields of study different from her/his own. The appointment will take effect 1 July 1995.

Deadline for applications is 17 May 1995. Enquiries or applications, accompanied in the latter case by a curriculum vitae and the name of three referees, should be submitted to: Dr Harvey Zingle, Dean, Faculty of Education, University of Alberta, 845 Education South, Edmonton, Alberta T6G 2G5

## SUPPORT STAFF

To obtain information on support staff positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall. You can also call the Job Information Line at 492-7205 (24 hours) or consult the weekly Employment Opportunities Bulletin.



## ACCOMMODATIONS FOR RENT

MICHENER PARK - Two bedroom rowhouses and apartments for rent in University residence located in southwest Edmonton. Excellent bus service to University, utilities included. University inquiries welcome, 492-7044.

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EXECUTIVE HOME - Fully furnished in Old Glenora. Easy access to University. September 1995 to April 1996. \$1,200/month. References requested. Telephone (403) 455-4830. Fax c/o 427-0699.

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IDEAL SABBATICAL RENTAL - Deluxe, fully furnished one bedroom condo. Eighteenth floor, river view, pool, sauna, adjacent to campus. Available May. 492-3663, 489-0893.

TWO STOREY, THREE BEDROOM HOME - 81 Avenue west of 109 Street. Nonsmoking, no pets. \$900/month. Fax 963-8191. Available 1 June.

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dows. Greenfield area. Nice residential neighbourhood, excellent schools. Express bus to University. Bikepath via University Farm. Furniture optional. July or August, one year. Small families or retired couples. Dog OK. \$750/month. 435-6615.

WEST END - Available 1 July. Three bedrooms, den. 1 1/2 storey home. Wood stove, double garage, established garden beds, fenced yard, optional security system. Close to bus, shopping. \$1,000/month. Nonsmokers. 489-7998.

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CHARACTER HOUSE, 1 JUNE - A stone's throw from University, hospitals. Hardwood floors, wood fireplace. \$650/month plus utilities for appropriate couple or single person with good references. 433-4358, 434-0220.

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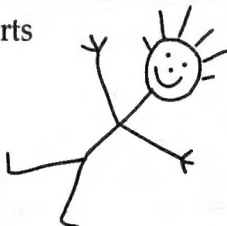
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